ACCESSION NR: AP4038780

fine structure lies outside the wavelength region of interest. Orig.art.has: 5 figures and 1 table.

ASSOCIATION: Fizicheskiy fakul'tet Leningradskogo gosudarstvennogo universiteta (Physics Department, Leningrad State University)

SUBMITTED: 00

DATE ACQ: 12Jun64

ENCL: 00

SUB CODE: OP,EC

NR REF SOV: 010

OTHER: CCO

Cord 3/3

L 9915-66 EWT(1)/EWP(a)/EWP(j)/EWP(j)/EWP(b) LHB/RM/WH ACC NR. AP5022867 SOURCE CODE: UR/0051/65/019/003/0425/0433
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AUTHOR: [Lukirskiy, A. P.] (Deceased); Savinov, Ye. P.; Yershov, O. A.; Zhukova, I. I.
Fomichev, V. A.
ORG: None 71.411. TITLE: Reflection of x rays with wavelengths from 23.6 to 190.3 Å. Some remarks on the operation of diffraction gratings
SOURCE: Optika i spektroskopiya, v. 19, no. 3, 1965, 425-433 TOPIC TAGS: x ray diffraction, x ray filter, x ray spectrum, diffraction grating
ABSTRACT: The authors measured the angular dependence of the reflection coefficient for various substances, using the following monochromatic lines: O_K (23.6 Å), O_K (31.4 Å), O_K (44 Å), O_K (67 Å), O_K (108.65 Å), O_K (128.66 Å), O_K (164.6 Å), and O_K (190.3 Å). The measurement methods were described by the authors elsewhere (0pt. I spektr. v. 16, 310, 1963 and earlier). For lines shorter than 113 Å the radiation was detected with a flow-through proportional counter filled with methane; for longer wavelengths a Geiger counter with argon-alcohol mixture was used. The substances measured were O_K gold, titanium, and polystyrene. The method of preparing the reflectors was also described in the earlier papers. Polystyrene and titanium reflectors are found to be capable of effectively filtering radiation shorter than 50200 Å, depending on the angle of incidence. In the case of F-1 glass, a sharp fine structure is observed in the reflection coefficient at wavelengths 70130 Å. For titanium the fine structure appears at wavelengths shorter

9915-66 than 30 Å, and for polystyrene at wavelengths shorter than 45 Å. Gold exhibits no fine structure. The spectral dependences of the reflection coefficients show that titanium mirrors can be used effectively as filters for radiation of wavelengths shorter than 70 A at various angles of incidence, and that polystyrene mirrors can be used as filters for radiation shorter than 50--180 A, depending on the angle of incidence. The maximum reflection coefficients in the first order of diffraction have been calculated also for echelettes cut in F-1 glass and echelettes with gold and titanium coatings, which were also studied by the authors earlier (opt. i spektr. v. 14, 285, 1963). Plots of the maximum reflection coefficient of the echelettes (600 and 1200 lines/mm) vs. the angle make it possible to choose the optimum angles of incidence and the angles of inclination of the echelette steps. The greatest possible reflection coefficients are obtained in first order. Orig. art. has: 3 formulas and 1 table. SUBM DATE: 21May64/ ORIG REF: 007/ OTH REF: 001 SUB CODE: 20/ 07/ 18/ 2/2

EWT(1)/EW1(m)/EWP(t)/ETI IJP(c) JD/JW/JG SOURCE CODE: UR/0181/66/008/006/1787/1790 ACC NR: AP6018540 AUTHOR: Lukirskiy, A. P. (deceased); Yershov, O. A.; Zimkina, T. M.; Savinov, Ye. P. ORG: Leningrad State University im. A. A. Zhdanov (Leningradskiy gosudarstvennyy universitet) TITLE: Spectral dependences of the absorption, reflection, and photoemission coefficients of LiF in the range from 60 to 120 ev SOURCE: Fizika tverdogo tela, v. 8, no. 6, 1966, 1787-1790 TOPIC TAGS: lithium fluoride, absorption coefficient, absorption edge, quantum yield, bremsstrahlung, x ray diffraction study, spectral distribution ABSTRACT: In order to study the fine structure of the absorption edge, the authors measured the coefficients of absorption, reflection, and the quantum yield of LiF in the range 60 - 120 ev, which has not been thoroughly investigated in the past. The measurements were made with an x-ray spectrometer with diffraction grating using the bremsstrahlung spectrum of a tungsten anode. The apparatus and procedures for its use and for elimination of higher-order diffraction spectra were described elsewhere (Opt. i spektr. v. 19, 433, 1965 and earlier papers). The tested samples were thin polycrystalline LiF films deposited by vacuum evaporation on nitrocellulose substrates Sharp fluctuations of the absorption coefficient, which exactly duplicate fluctuations in the spectral dependence of the quantum yield, were observed in the region of the absorption K edge of the lithium ion over a section extending from ~60 to ~80 ev. The Card 1/2

問題及教師的にてする前に言うなる中では自分を中でいます。	
L 41590-66	
ACC NR: AP6018540	
the sod) and its correlation wi	th the absorp-
large values of the quantum yield (more than 50%) and its to the photoemission tion coefficient indicate that the fundamental role in the photoemission tion coefficient indicate that the fundamental role in the photoemission	near the
tion coefficient indicate that the lumbers of another dependence of	f the reflec-
absorption edge is played by Auger elections. The K edge and agr	ees qualita
tion coefficient also displays a line solution another However, no	exact corre-
tively with the fine structure of the distriction coefficients, i	n view of the
lation is observed between the absorption and reflection coefficient of the authors complicated relation between them via the refractive index. The authors complicated relation between them via the regular and S. A. Gribovskiy and N. N. Iva	thank A. M.
complicated relation between them via the refractive industry and N. N. Iva Rumsh for a discussion of the results and S. A. Gribovskiy and N. N. Iva	nchik for
Rumsh for a discussion of the results and S. A. Gribovskiy and and help with the reduction and presentation of the results. Orig. art. has	T 118me
and 1 table.	
and I table.	7 6
SUB CODE: 20/ SUBM DATE: 03Nov65/ ORIG REF: 008/ OTH REF: 0	
세 요즘 모이는 이번 전 보이에 하면 되는 것이 되었다. 그런 그런 이 이상에 나온 사이를 봤죠.	
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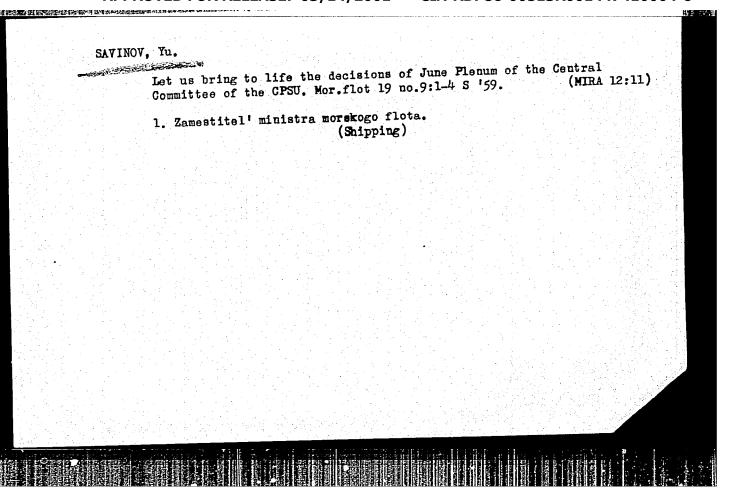
	Mechanized tillage of forest shelterbelts. Put' i put. 4:31-33 Ap '58.	khoz. no. (MIRA 11:4)
	1. Stershiy inzhener distantsii zashchitnykh lesonasazhd stantsiya Kurgan. (Windbreaks, shelterbelts, etc.) (Agricultural	

Design of tree belts. Put' i put.khoz. 7 no.7:43 '63.

(MIRA 16:10)

1. Zamestitel' nachal'nika Kurganskoy distantsii zashchitnykh lesonasazhdeniy Yuzhno-Ural'skoy dorogi (for Savinov).

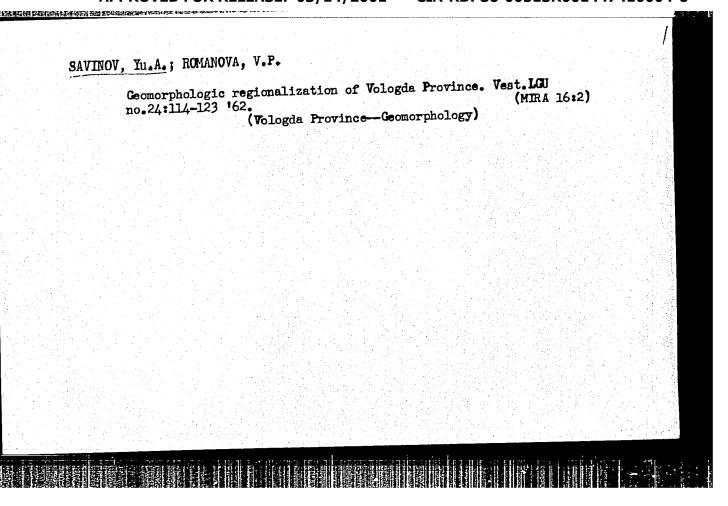
2. Nachal'nik distantsii zashchitnykh lesonasazhdeniy, stantsiya Uzlovaya, Moskovskoy dorogi (for Geleskul). 3. Starshiy inzh. distantsii zashchitnykh lesonasazhdeniy, stantsiya Uzlovaya, Moskovskoy dorogi (for Shul'ga).

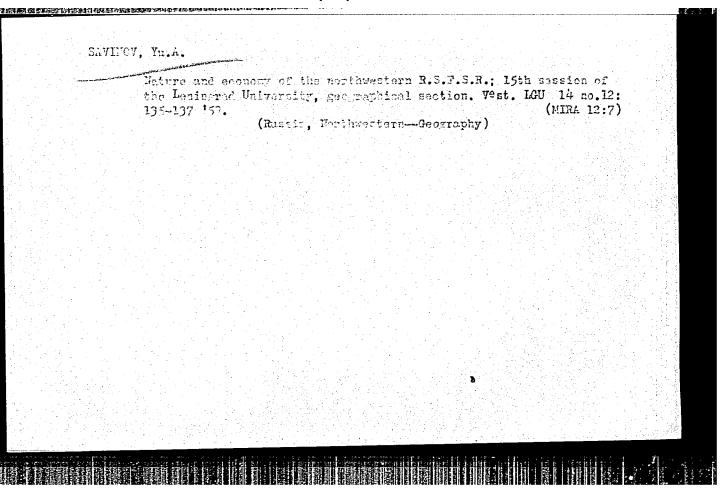


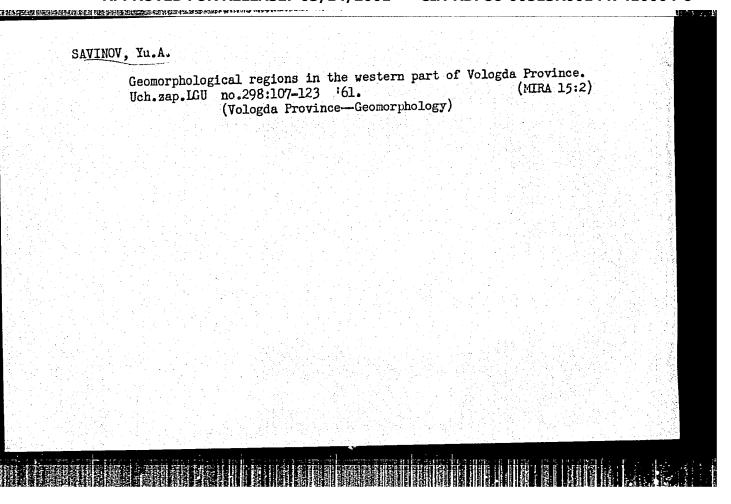
SAVINOV, Yu.

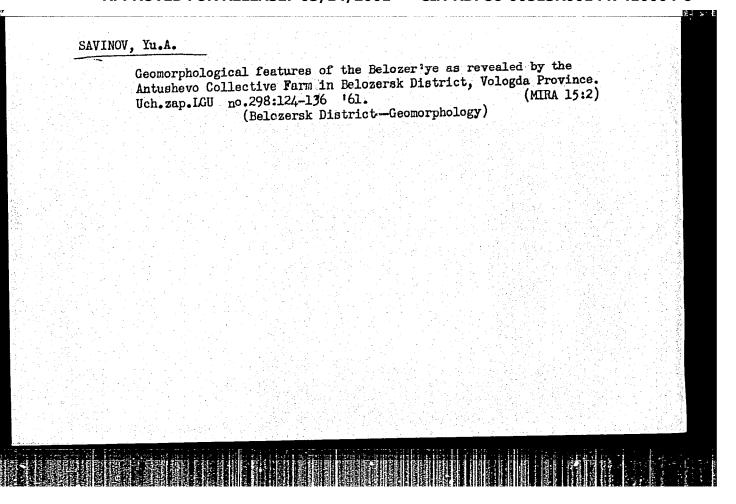
We shall put into practice the resolutions of the Movember plenum of the Central Committee of the CFSU. Mor. flot 23 no.111-4 Ja 163. (MIRA 16:4)

1. Pervyy zamestitel ministra morskogo flota SSSR. (Merchant marine)









GVOZDEV, V.S., kand.tekhn.nauk; SAVINOV, Yu.P., gidrolog

Calculating flow at low-capacity hydroelectric power stations
in dams. [Mauch.trudy] VIESKH 3:358-378 '58,

(MIRA 13:4)

(Hydroelectric power stations)

KRAVCHENKO, V., arkhitektor; SAVINOVA, A., inzh.

"Carrousel" milking parlor on a collective farm. Sil'. bud.
12 no.1:4-6 Ja '62.

(MIRA 16:12)

SOV / 124-58-5-5605

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 5, p 99 (USSR)

AUTHORS: Lapina, N. N., Savinova, A. I.

TITLE: The Study of the Permeability Coefficient of Sand at Subfreezing

Temperatures (Izucheniye koeffitsiyenta fil' tratsii peska pri

otritsatel' noy temperature)

PERIODICAL: Byul. nauchno-tekhn. inform. M-vo geol. i okhrany nedr

SSSR, 1957, Nr 3 (8), pp 28-29

ABSTRACT: Bibliographic entry

1. Sand--Physical properties

2. Sand -- Temperature factors

Card 1/1

	Sirups made with corn molasses Ap 62.	. hons. i ov.prom. 17	no.4:22-23 (MIRA 15:3)
	1. Severo-Osetinskiy sovnarkho	z. (Corn sirup)	
			100 - 13 - 13 11 12 13 13 13 13 13 13 13 13 13 13 13 13 13
			(12 명) [12 명] (2. 대) [12 명] (2 명) [12 대) [12 명] (2 명)
official Constitution			

SAVINOVA, A.M.

Technological characteristics of "Uspekh" cucumbers. Kons.
i ov. prom. 17 no.2:34-35 Ag '62. (MIRA 17:1)

1. Krasnodarskiy nauchno-isaledovatel'skiy institut pishchevoy promyshlennosti.

SAVINOVA, A.M.

Better organization of weight accounting for received and expanded sulfured fruit. Kons.i ov.prom. 17 no.9:28 S '62.

(MIRA 15:8)

1. Sovet narodnogo khozyaystva Severo-Osetinskoy ASSR.

(Canning industry—Accounting)

S/062/63/000/001/006/025 B101/3186

AUTHORS:

Avramenko, L. I., Kolesnikova, R. V., and Savinova, G. I.

TITLE:

Rate constants and mechanism of the reaction of oxygen

atoms with ethylene, propylene, and isobutylene

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Otdeleniye

khimicheskikh nauk, no. 1, 1963, 36-45

TEXT: A continuous vacuum apparatus was used for studying the reaction of ${}^{\rm C}_2{}^{\rm H}_4$, ${}^{\rm C}_3{}^{\rm H}_6$ and ${}^{\rm i}$ - ${}^{\rm C}_4{}^{\rm H}_8$ with atomic oxygen produced by high voltage discharge in pure ${}^{\rm O}_2$. The reaction products were condensed with liquid

nitrogen and analyzed. Inflammation of the reaction mixture proceeding as chain reaction was prevented by covering the walls of the reaction vessel with KCl so that the quantity of the products formed corresponded to that of the O consumed. Based on the equations derived previously (Izv. AN SSSR, Otd. khim. n. 1962, 963), the constant of the reaction rate was determined from the total aldehydes formed. The constant of the oxygen consumption was determined by measuring the concentration of oxygen atoms, which

Card 1/4

S/062/63/000/001/006/025
Rate constants and mechanism ... B101/B186

decreases along the reaction yessel. Results: (A) In the reaction with ${}^{\rm C}_{2}{}^{\rm H}_4$, the formaldehyde component of the aldehydes formed is 80% at 50°C and more than 90% at 200°C. Moreover, acetaldehyde forms. CO and CH₂O form in equal quantities. The content of free O atoms decreases linearly along the reaction vessel. ${}^{\rm K}_{\rm C_2H_4} = 1 \cdot 10^{-13} \, {\rm exp}(-1350/{\rm kT}) \, {\rm cm}^3 \cdot {\rm sec}^4 \, {\rm molecules}^{-1}$ and the activation energy is 1350 ± 500 cal/mole. (B) In the reaction with ${}^{\rm C}_{\rm 2}{}^{\rm H}_6$, the CH₂O component of the carbonyl compounds formed is 70% at 100°C, and 80-65% at 200°C. The second aldehyde forming is acetaldehyde. In addition acetone is formed (in a quantity ~15% that of the acetaldehyde). CO forms in a larger quantity than acetaldehyde. Consequently not only the CH₂ radical is oxidized to CO as in case A, but also the CH₃CH= radical is partially oxidized to CO. ${}^{\rm K}_{\rm C_3H_6} = 2 \cdot 65 \cdot 10^{-12} \cdot {\rm exp}(-3000/{\rm kT}) \, {\rm cm}^3 \cdot {\rm sec}^{-1} \cdot {\rm molecules}^{-1}$ and the activation energy is 3000 ± 500 cal/mole. (C) In the reaction with i-C₄H₈, 60-70% Card 2/4

5/062/63/000/001/006/025 B101/B186

Rate constants and mechanism ..

of the carbonyl compounds is formaldehyde, the remainder acetone. Additionally, propylene forms in the same quantity as formaldehyde, and CO in the same quantity as acetone. Hence, the following reaction scheme is

The radical = $C(CH_3)_2$ is regrouped completely to propylene. $k_{i-C_4H_6} = 4 \cdot 10^{-12} \exp(-2550/RT) \text{cm}^3 \cdot \text{sec}^{-1} \cdot \text{molecules}^{-1}$ and the activation

energy is 2550 cal/mole. It was confirmed that in the reaction of atomic oxygen with unsaturated hydrocarbons mainly the C=C double bond is split and that carbonyl compounds, predominantly formaldehyde, form. There are 6 figures and 4 tables. The most important English-language references are: H. W. Ford, N. Endow, J. Chem. Phys., 27, 1277 (1957); F. Kaufman, J. Chem. Phys., 28, 352 (1958); L. Elias, H. J. Schiff, Canad. J. Chem., 38, 1657 (1960). Card 3/4

Rate constants and mechanism ... 3/C62/63/000/C01/C06/025

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics of the Academy of Sciences USSR)

SUBMITTED: April 10, 1962

Card 4/4

L 12734-63 EPF(c)/EWP(j)/EWT(m)/BDS Pr-4/Pc-4 RM/WW ACCESSION NR: AP3002281 S/0062/63/000/006/0976/0980

64

63

AUTHOR: Avramenko, L. I.; Kolesnikova, R. V.; Savinova, G. I.

TITLE: The rate constant and the mechanism of reaction of oxygen atoms with n-butane Λ

SOURCE: AN SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 6, 1963, 976-980

TOPIC TAGS: reaction of n-butane with oxygen, formation of formaldehyde and acetaldehyde

ABSTRACT: A study has been made on the measurement of the reaction rate constant of oxygen atoms with n-butane between temperature intervals of 40 to 1950 for the determination of the magnitude of activation energy and the exponential multiplier of the speed of the reaction 0 + n-C sub 4 H sup 10. The activation energy of the reaction rate constant was found to be 4100 cal/mole and the exponential multiplier value was found to be 1.3 x 10 sup - 11. Only a general conclusion can be made concerning the reaction mechanism between the oxygen atoms and n-butane. Assuming that the main products of the reaction are formaldehyde and acetaldehyde, it is possible to conclude that the reaction of oxygen with n-butane results in the rupture of the c-c bond. Orig. art. has: 3 figures, 3 tables, and 2 formulas. Association: Inst. of Chemical Physics, Academy of Sciences SSSR

Card 1/2/

	: AP5006411 1	JA(c)\khp ga\max	5,002,	Pc-4/Pr-4/Ps- ¹ 65/000/001/0028/003 2	心
AUTHOR: Avr	amenko, L. I.;	Kolesnikova, R. V.;	Savinova, G. I.	57	3
ritle: Cons	tants of the sp	eeds of reaction of	atomic oxygen w	ith cyclohexane and	d
SOURCE: AN	SSSR. Izvestiya	. Seriya khimichesl	aya, no. 1, 1965	, 28-35	
TOPIC TAGS:	cyclohexane, b pound	enzene, cyclic hyd	cocarbon, oxygen,	oxygen compound,	
and with ben especially t saturated ri cyclohexane	zene were measu o clarify the b ng. The energi and benzene wer	speeds of reaction of and the mechanochavior of the atoles of activation of found to be 4500 se reactions is splant, has: 4 fig.	mic oxygen with f the atomic oxy and 4700 cal/M itting of the ri	the aromatic and the gen reactions with respectively. One ong and formation of	of
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ASSOCIATION: Institut khimiche Chemical Physics, Academy of So	eskoy fiziki Akademii nauk S Siences, SSSR)	BSK (118 Litute 02
SUBMITTED: 11Mar63	ENCL: 00	SUB CODE: GC, OC
NO REF SOV: 008	OTHER: 003	
BO3 Card 2/2		
Card 2/2		

	CCESSION NR: AP5009657 WW/Jh/RM UR/0062/65/000/003/0408/0412	
A	UTHOR: Avramenko, L. I.; Kolesnikova, R. V.; Savinova, G. I. 53	
T	ITLE: The mechanism and the rate constant of oxygen atoms with $\widehat{\overline{\mathcal{S}}}$	
4	OURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 3, 1965. 08-412	
T	OPIC TAGS: acetylene, fuel, propulsion, ram jet, supersonic ombustion	
'n	BSTRACT: The rate constant and the mechanism of the reaction $+ C_2H_2$ were studied at $70-260C$ and $4-20$ mm Hg. The following xpression was obtained for the rate constant:	
	k = 2.9.10-13e-3100/RT/(cm3, sec-1, molecule-1; .	
	he atomic oxygen was generated by high-voltage discharge from nolecular oxygen, and the reaction products, formaldehyde, glyoxal, arbon monoxide, and hydrogen, were determined by chemical and	
Cm	rd 1/2	

ACCESSION NR: AP5009657 polarographic analysis. At the only aldehyde present,	-low pressure (4 mm l	lg) formaldehyde was th formaldehyde and	
glyoxal were formed. The macetylene reaction is split formulas and 3 figures.	ting the CSC bond.	orig art. has: 12	
ASSOCIATION: Institut khim (Institute of Chemical Phys SUBMITTED: 02Apr63	ics, Academy of Scient	SUB CODE: OC,GC	
NO REF SOV: 007	OTHER: 002	ATD PRESS: 3225	
رون			

ISAKOV, I.S., prof., admiral flota v otstavke, otv.red.; PETROVSKIY, V.A..

dotsent, kand.voyenno-morskikh nauk, kontr-admiral. zamestitel'
otv.red-ra [deceased]; DEMIN, L.A., dotsent, kand.geograf.nauk,
otv.red-ra [deceased]; DEMIN, L.A., dotsent, kand.geograf.nauk,
inzh.-kapitan l ranga, glavnyy red.; BERG, S.L., inzh.-mayor, red.;
PAVIOVA, O.T., red.; PANIN, I.S., red.; KRONIDOVA, V.A., red.;
PAVIOVA, O.T., red.; SHIROKOVA, V.S., red.; BOGOLYUBOVA, Ye.D.,
inzh.-kartograf; BRAILOVSKAYA, Ye.D., inzh.-kartograf; ZININA, Ye.M.,
inzh.-kartograf; ORIOVA, N.S., inzh,-kartograf; SAVINOVA, G.N., inzh.kartograf; ALEKSEYEVA, A.V., tekhnik-kartograf; BALAKSHINA, M.M.,
kartograf; GRIGOR'YEV, A.P., tekhnik-kartograf; DUROVA, T.P.,
tekhnik-kartograf; MILETINA, M.S., tekhnik-kartograf; SHUMAN,
O.B., tekhnik-kartograf; TROPOVA, Z.V., tekhnik-kartograf; SHUMAN,
E.E., tekhnik-kartograf; FURAYEVA, Ye.M., tekhn.red.; SVIDERSKAYA,
G.V., tekhn.red.; CHERNOGOROVA, L.P., tekhn.red.; SHREYDER, L.Z.,
tekhn.red.; CHERNOGOROVA, L.P., tekhn.red.; SHREYDER, L.Z.,

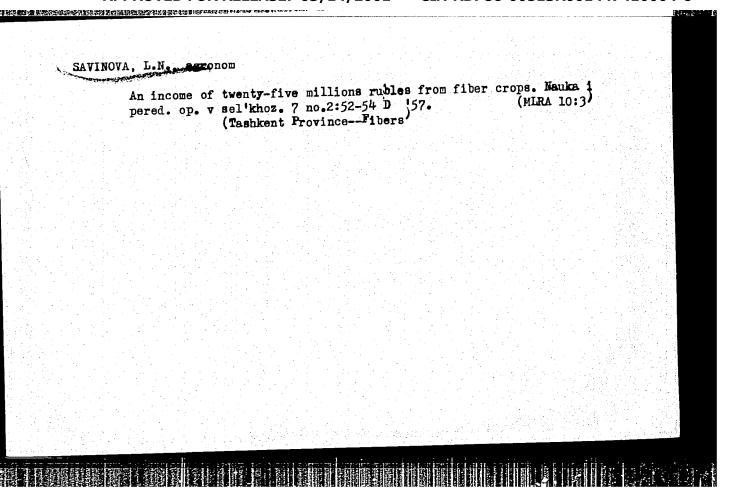
[Marine atlas] Morskoi atlas. Otv. red. I.S. Isakov. Glav. red. L.A. Demin. Izd. Morskogo general'nogo shtaba. [---Index of geographical names] ---Ukazatel' geograficheskikh nazvanii. 1952. (MIRA 12:1)

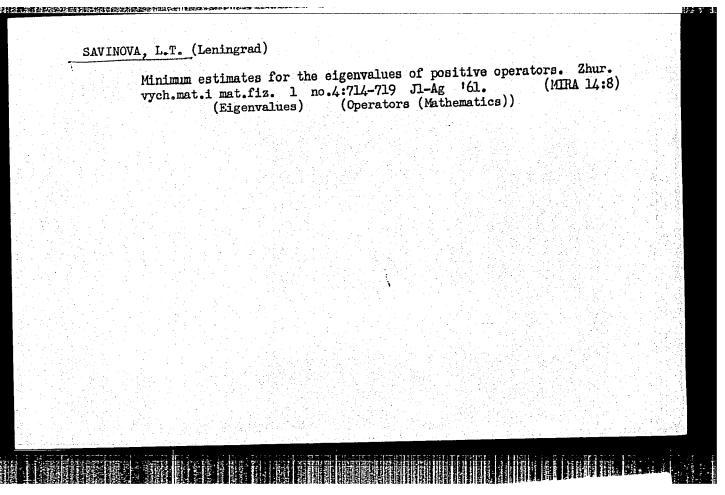
1. Russia (1923- U.S.S.R.) Voyenno-morskoye ministerstvo. (Ocean--Maps) (Harbors--Maps)

BERG, S.L., polkovnik; VOROB'YEV, V.I., kapitan pervogo ranga; GIL'EO,
G.M., kapitan pervogo ranga; ANANCHENKO, A.A.; BALAKSHINA, M.M.;
BANNIKOV, B.S., kapitan vtorogo ranga; BAKHTINA, G.F.; BEREHSHTAM,
N.V.; BUTYRINA, N.Ya.; VOROB'YEV, V.I., kapitan pervogo ranga;
N.V.; GINEYSH, N.S.; GLADIN, D.F., polkovnik; GOLOVANOVA, L.G.,
CASS, I.P.; GINEYSH, N.S.; GLADIN, D.F., polkovnik; GONCHAROVA, A.I.;
kand. ist. nauk; GOLUHEVA, Z.D., kand. filol. nauk; GONCHAROVA, A.I.;
ZANADVOHOVA, R.N.; IVANOVA, N.G.; KARAMZIN, G.B.; KOVAL'CHUK, A.S.;
KRONIDOVA, V.A.; LITOVA, Ye.I.; MOLCHANOVA, T.I.; OKUN', L.S.;
FOCHEBUT, A.N.; RAYTSES, V.I.; SAVINOVA, G.N.; SENICHKINA, T.I.;
POCHEBUT, A.N.; RAYTSES, V.I.; SAVINOVA, G.N.; SENICHKINA, T.I.;
SKRYNNIKOV, R.G., kand. ist. nauk; FURAYEVA, I.I.; CHIZHOVA, N.N.;
YASINSKAYA, L.F.; GLADIN, D.F., polkovnik; LAHETSKIY, Ye.F., podpolkovnik; LEBEDEV, S.M., kapitan pervogo ranga; ORDYNSKIY, N.I.,
kapitan pervogo ranga; NADVODSKIY, V.Ye., podpolkovnik; DEMIN, L.A.,
kapitan pervogo ranga; NADVODSKIY, V.Ye., polkovnik, zam. otv.
inzh.-kontr-admiral, glav. red.; FRUMKIN, N.S., polkovnik, zam. otv.
red.; LEVCHENKO, G.I., admiral, red.; BAKHTINA, G.F., tekhn. red.

[Naval atlas] Morskoi atlas. n.p. Izd. Glavnogo Shtaba Voenno-Morskogo Flota. Vol.3. [Naval history] Voenno-istoricheskii. Pt.l. [Text for the maps] Opisaniia k kartam. 1959. xxii, 1942 p. (NIRA 15:5)

1. Russia (1923- U.S.S.R.) Ministerstvo oborony. (Naval history)





s/517/62/066/000/005/006 B172/B112 Savinova, L. T. Calculation of several types of definite integrals of AUTHOR: oscillating functions Akademiya nauk. SSSR. Matematicheskiy institut. Trudy. TITLE: v. 66. Moscow, 1962. Raboty po avtomaticheskomu programmirovaniyu, chislennym metodam i funktsional'nomu SOURCE: analizu. 166-181 TEXT: An approximate formula for integrals $\int f(x)dx$, wherein f(x)oscillates about zero, has been derived by M. Longman (Mathematics of Computation, v. 14, no. 69, January 1960, 53-59) on the assumption that the absolute amounts of the integrals f(x)dx, whose limits x_{i-1} and x_i are successive zeros of f(x), card 1/2

Calculation of several types ...

s/517/62/066/000/005/006 B172/B112

vary monotonically and slowly as i increases. For this formula to be applicable it is necessary only that the values of the I_1 's at the ends of the integration interval should be known. It is shown that the assumption stated above is not necessary. For this purpose, integrands of the form $P_n(x)\sin$ max and $P_n(x)\cos$ max are considered, where $P_n(x)$ is a polynomial of n-th degree. If the differences between the I_1 's near the limits of integration are smooth enough, Longman's formula will give usable values even for such integrands. The last part deals with the application of the present formula to integrals resulting from a Ritz formulation to solve a differential equation of second order. There are 3 figures and 2 tables.

Card 2/2

KOLYALITSEAY.,; EAVIROVA, M.T.

Simple and practicable method for handling laboratory utenails.

[Alexa 17:12]

Lab. delu no.9:574 '64.

1. Inabitut epidemiologii i mikrobiologii im. N.F. Garalei, Moskva.

SAVINO/A, H.; KUDEJAVCEV, I.

"Fati_ue Resistance of Welds Increased by Surface Hardening." p. 127
(SVARACSKY SBORNIK. Vol. 2, No. 1/2, 1953; Bratislava, Czech.)

So: Monthly List of East European Accessions, (ELAL), L2, Vol. N, No. N, April 1955, Uncl..

SAVINOVA, N. 1

"A Method of Cultivating Tomato Seedlings in Peat Food Cutes." Cand Agr

"A Method of Cultivating Tomato Seedlings in Peat Food Cutes." Cand Agr

Sci, Moscow Agricultural Acad imeni K. A. Timiryazev, Moscow, 1953. (RZh Biol, No 8, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55

EDEL'SHTEYN, V.I., professor, doktor sel'skokhozyaystvennykh nauk;
SAVINOVA. N.I.. kandidat sel'skokhozyaystvennykh nauk.

Raising seedlings in peat-humus pots and in enriched cubes.
Est.v shkole no.2:17-22 Mr-Ap '54. (MLRA 7:3)

1. Moskovskaya sel'skokhozyaystvennaya akademiya im. K.A.Timiryazeva (for Savinova). (Vegetable gardening)

RUMANIA/Cultivated Plants. Potatoes. Vegetables. Helons.

Abs Jour: Ref Zhur-Biol., No 5, 1958, 20328.

: N. Savinova, D. Belan, S. Aleksa, V. Choake.
: Agricultural Scientific Research Institute, Rumanian Author

: On the Problem of Cultivating the Shoots of Vegetable Crops in Feeding Vessels. (K voprosu vyrashchivaniya Inst ritle

rassady ovoshchnykh kul tur v pitatel nykh gorshochkakh).

Orig Pub: Comun. Acad. RPR, 1956, 6, No 9, 1123-1129.

Abstract: In the vegetable raising division of the Agricultural Scientific Research Institute (RPR) a study was made of mixtures for the turf-mold vessels and norms of mineral fertilizing. The advantages of lowland and upstream turf above other materials has been established.

The amount of mineral fertilizers depends on the crop

: 1/2 Card

RUMANIA/Cultivated Plants - Fruits. Berries.

: Ref Zhur Biol., No 12, 1958, 53829 Abs Jour

Author

Negreanu Elena, Savinova, Nina

Inst

Title

: Growing the Grape Vine from Seeds in the Feed Pots.

Orig Pub

: Gradina, via si livada, 1957, 6, No 1, 55-57

Abstract

: Λ 100% germinating ability of the seeds was achieved at the experimental station of viticulture in Valya Kelugeryaske (RNR, 1956) in growing grape vine from hybrid seeds in feed pots. The feed pots contained the following: 3 parts of peat, 1 part of sawdust, 1 part of virgin soil and 2 part of cow manure diluted with water 1:1 0.5 G Waa, 4 E Pc and 0.5 g of potash are added to each 1 kg or the mixture. 12-14 days before sowing, the seeds were soaked in water at the temperature of 305. Due to this the seeds sown March 27-30 produced sprouts April 6-11, and on the 75th day the vine was 70 cm in height

Card 1/2

- 134 -

SAVINOVA, N

RUMANIA/Cultivated Plants - Potatoes, Vegetables, Melons.

M-3

1958, 10819

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10819

Author : Davidescu, D., Savinova, N.

Inst : Title : Soilless Cultivation of Vegetables.

Orig Pub : Gradina, via si livada, 1957, 6, No 6, 20-24

Abstract : No abstract.

Card 1/1

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001447410004-6"

SAVINOVA, M.; BALAN, D.; BLAMARU, V.

Hineral feeding of seedlings grown in nutritive pots.

P. 669 (COMUNICARILE) (Eucuresti, Rumania) Vol. 7. No. 7. July 1957

30: Nonthly Index of East European Accessions (MEAI) LC Vol. 7. No. 5. 1958

A new stimulant 40 My :63.	for plant growth.	St si Teh Buc :	15 no.5:	

KISELEV, A.V.; NIKITIN, Yu.S.; SAVINOVA, N.K.; SAVINOV, I.M.; YASHIN, Ya.I.

Use of macroporous silica gels for gas chromatographic analysis at high temperatures. Zhur. fiz. khim. 38 no.9:2328-2330 S '64. (MIRA 17:12)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova, khimicheskiy fakul'teta.

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Size of elementary active centers no.15:49	57. (NIRA 11:11)	
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SAVINCVA, S. I.

Calves

How I raised 1650 calves. Post. sel'khoz. no. 9, 1952.

Monthly List of Eussian Accessions, Library of Congress, December 1952. Unclassified.

POZNER, Viktor Mikhaylovich; KIRINA, Tamara Il'inichma; PORFIR'IEV, Gleb
Sergeyevich. Uchastvovali: AFRODOVA, A.A.; VISSARIOMOVA, A.Ya;
ZAKHAROVA, M.M.; KILIGIMA, M.I.; KOYMAZIMA, M.M.; LUB'YAK, I.A.;
MUSINA, K.K.; CHLOVA, I.N.; SAVINOVA, S.I.; TAZMOVA, Fe.E.;
TERENT'IRVA, V.D.; FADRIEVA, M.I.; CHERNOVA, Y.O.I.; SHEL'BOVA, A.K.
TIKHIY, V.H., red.; Dearing region; Carboniferous sediments] Volgo-Ural'skaia neftenosmaia oblast'. Kamemnougol'nye otlozheniia. Leningrad,
skaia neftenosmaia oblast'. Kamemnougol'nye otlozheniia. Leningrad,
Gos.mauchn.tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1957.
Gos.mauchn.tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1957.
Serp. (Leningrad, Vaesoiuznyi neftianoi nauchn-issledovatel'287p. (Leningrad, Vaesoiuznyi neftianoi nauchn-issledovatel'yeli geologorazvedochnyi institut. Trudy no.112) (MIRA 11:12)
skii geologorazvedochnyi institut. Trudy no.112) (MIRA 11:12)
(Volga Valley-Geology, Stratigraphic)
(Ural Mountain region-Geology, Stratigraphic)

Diagnosis of Vop. onk. 6 n	cancer of the o.4:53-58 Ap RUS_CANCER)	cervix uteri by colp 160. (ENDOSCOPY)	omicroscopy. (MIRA 14:3)	

SAVINOVA, V.F.

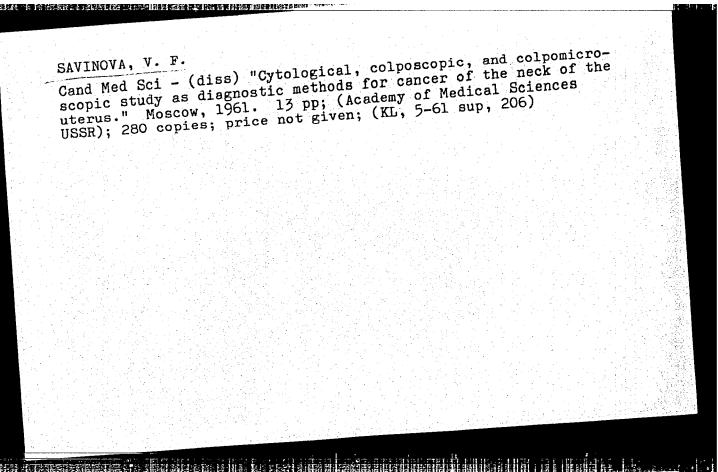
Comparative data on cytological and colposcopic examinations in the diagnosis of cancer of the cervix uteri. Sov. med. 24 no.4:76-81 (MIRA 13:8)

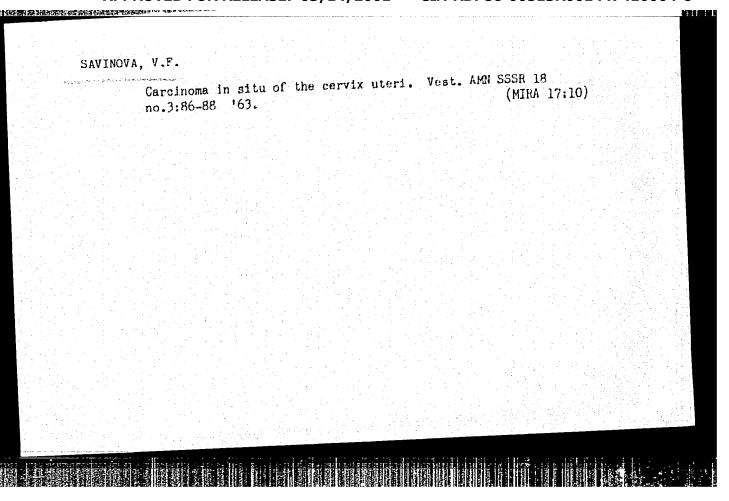
Ap '60.

1. Iz ginekologicheskogo otdeleniya (zav. - prof. L.A. Novikova) i klinicheskoy laboratorii (zav. N.N. Shiller-Volkova) Gosudarstvennogo klinicheskogo instituta im. P.A. Gertsena (dir. - prof. A.N. onkologicheskogo instituta im. P.A. Gertsena (dir. - prof. A.N. Novikov, nauchnyy rukovoditel' - deystvitel'nyy chlen ANN SSSR Novikov, nauchnyy rukovoditel' - deystvitel'nyy chlen ANN SSSR prof. A.I. Savitskiy) Ministerstva zdravookhraneniya RSFSR.

(UTERUS-CANCER)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001447410004-6"





VINCKUR, M.L.; SAVINCVA, V.F.; GOSH, T.Ye.

Clinical aspects and diagnosis of intraepithelial and initial infiltrating cancer of the cervix uteri. Akush. i gin. 40 no.4:33-38 Jl-Ag '64.

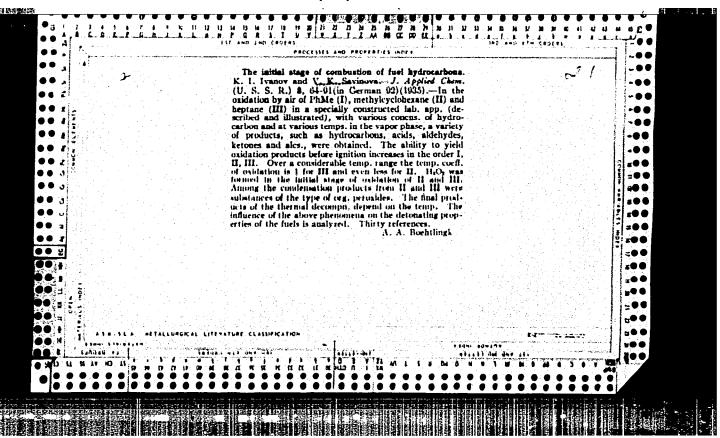
(MTRA 18:4)

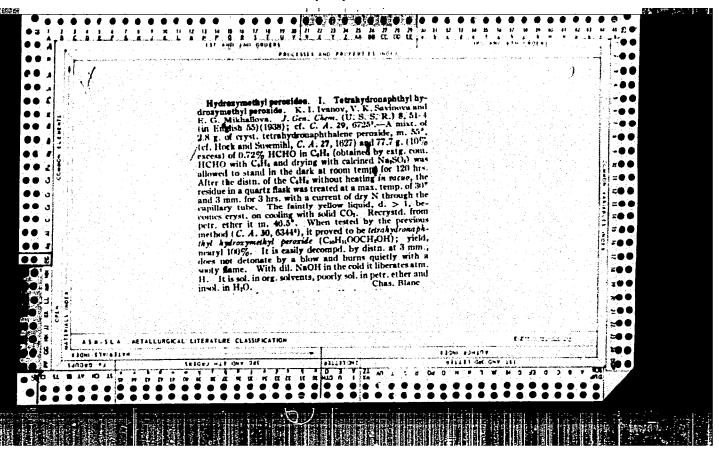
1. Ginekologicheskoye (zav. - doktor med. nauk I.S.Krayevskaya) i patologoanatomicheskoye otdeleniye (zav. - kand. med. nauk Z.V. Gol'bert) Onkologicheskogo instituta imeni Gertsena (dir. - prof. A.N. Novikov), Moskva.

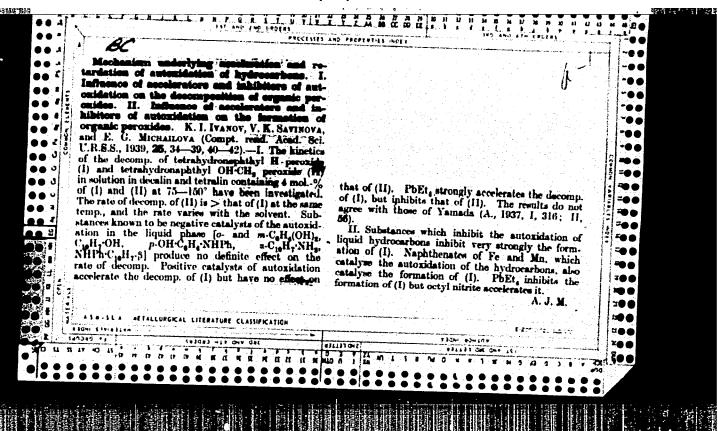
YELINSON, Zh.L.; SAVINOVA V.F.

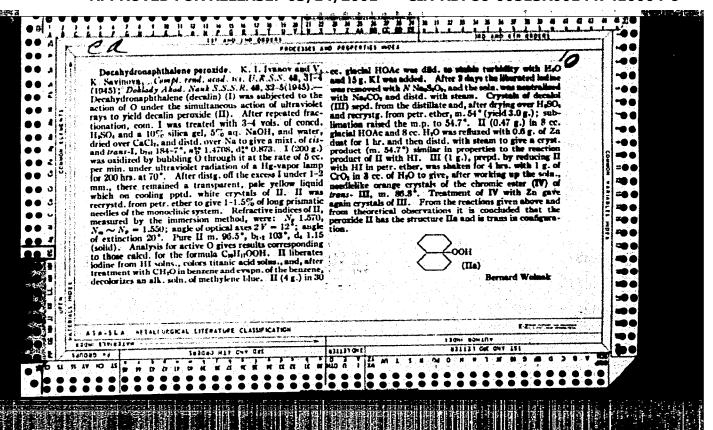
X-ray methods for the study and diagnosis of cancer of the uterus and its adnexa. Akush. i gin. 40 no.4:77-82 Jl-Ag '64. (MIRA 18:4)

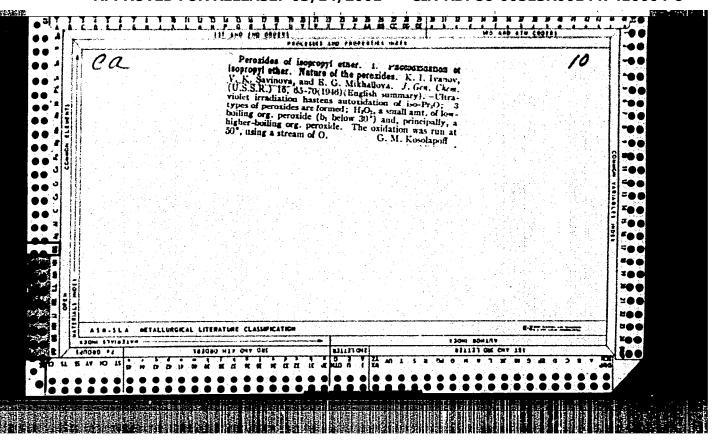
1. Rentgeno-radiologicheskiy otdel (zav. - prof. I.L. Tager) i ginekologicheskoye otdeleniye (zav. - chlen-korrespondent AMN SSSR prof. L.A. Novikova) Instituta eksperimental'noy i klinicheskoy onkologii (dir. - deystvitel'nyy chlen AMN SSSR prof. N.N.Blokhin) AMN SSSR, Moskva.

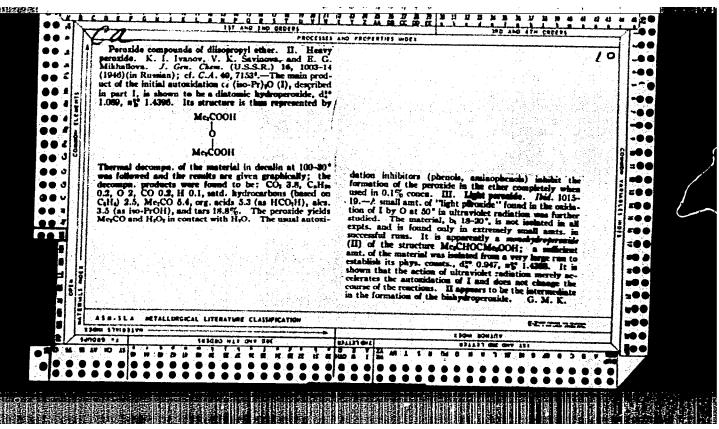










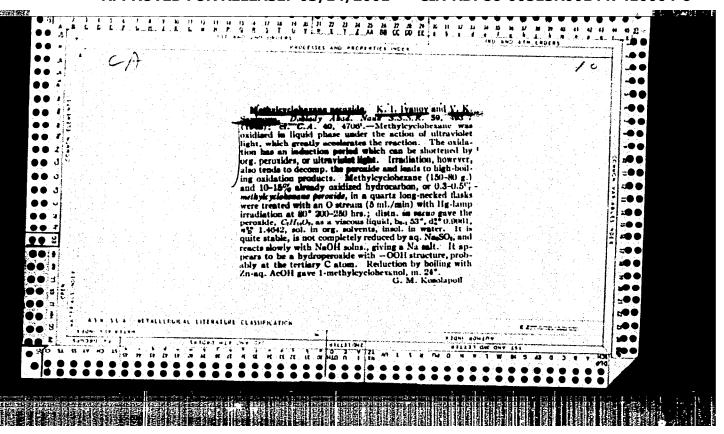


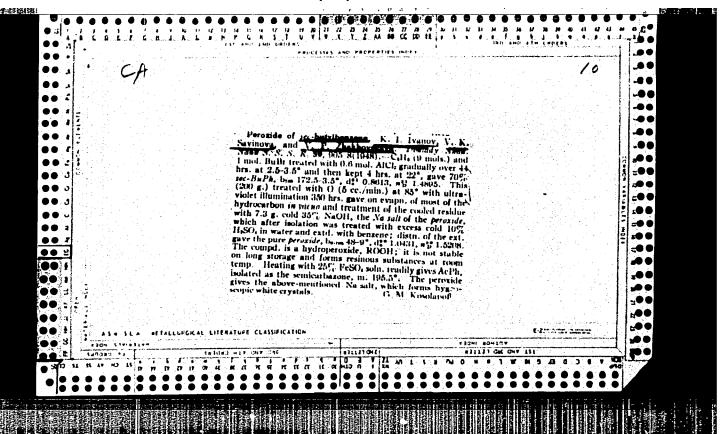
USER/Chemistry - Octane, 2-, 7-Dinsthyl Feb 1948
Chemistry - Percurites

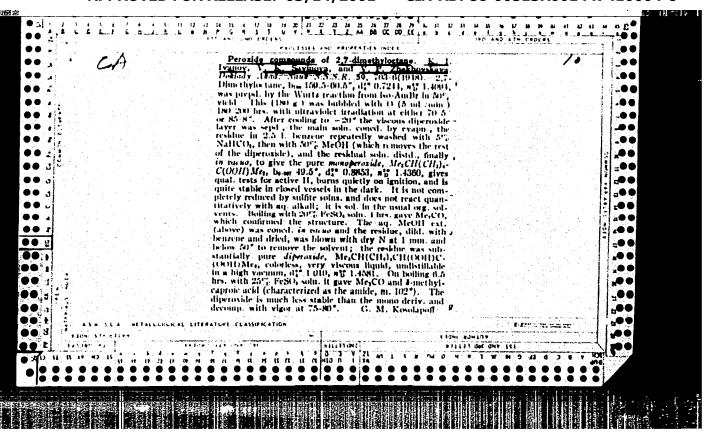
"Percuridation Compounds of 2.7-Dinsthyl Octane," K.
I. Ivanov, V. K. Savinova, V. P. Zhakhovekaya, All-Union Fuel Engin Inst imeni F. E. Dzerzhinskry, & pp

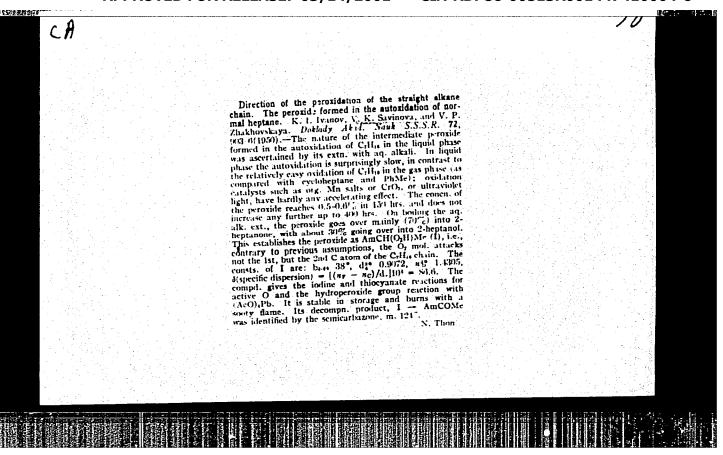
"Dok Akad Nauk SSSR, Nova Ser" Vol LII, No 4

Describes experiments showing that use of ultraviolet light on saturated hydrocarbons with open circuit of atoms makes them oxidize in comparatively mild temperature conditions. Submitted by Academician S. S. Nametkin, 23 Oct 1947.

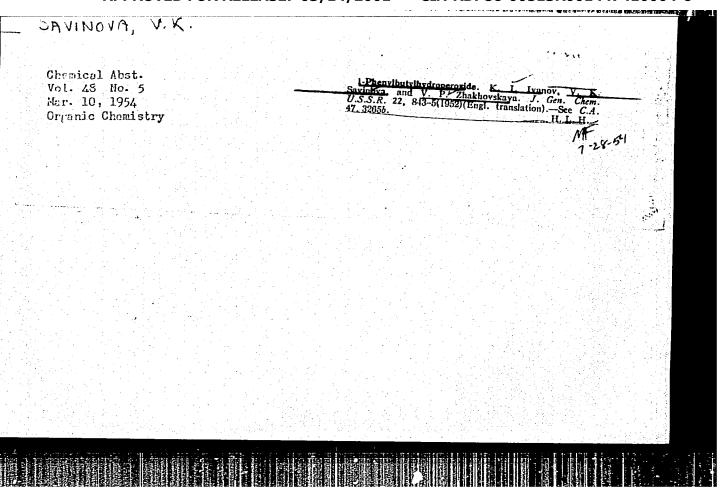


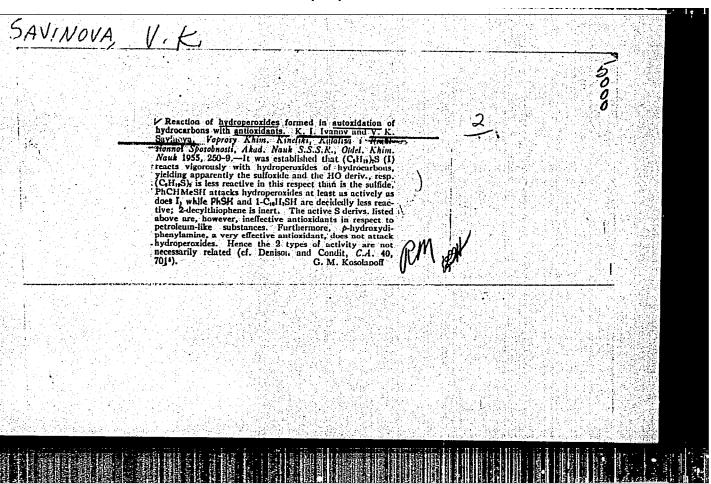






UBSR/Chemistry - Peroxides "The Peroxide of Butylbenzene," K. L. Ivanov, V. K. "The Peroxide of Butylbenzene," K. L. Ivanov, V. K. Savinova, V. P. Zhakhovskaya, All-Union Heat Engineer- ing Inst in F. Dzerkhinskiy Zhur Obshch Khim, Vol 22, No 5, pp 781-784 In photo-oxidation of n-butylbenzene with oxygen at 600, a hydroperoxide with an -OOH at the carbon atom of the side-chain group is formed. The peroxide was isolated and its properties were detd.	20 時間を発力が全球は大変にはなりできる。 はいまる かっちゅう ディー・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・		and the second
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L 13338-63 EPR/EPF(c)/EWT(m)/BDS Ps-4/Pr-4 RM/WW

ACCESSION NR: AP3002775

3/0204/63/003/003/0352/0359

AUTHOR: Ivanov, K. I.; Savinova, V. K.; Zhakhovskaya, V. P.

05

TIME: Thermal stability of alkyl hydroperoxides

,4

SOURCE: Neftekhimiya, v. 3, no. 3, 1963, 352-359

TOPIC TAGS: isomeric alkyl hydroperoxide, alkyl hydroperoxide decomposition

ABSTRACT: The investigated isomeric alkyl hydroperoxides can be grouped according to their increasing stability against thermal decomposition. Under the investigated conditions their stability in solutions is as follows: secondary, primary, and tertiary alkyl hydrocarbons. In an inert media of chlorobenzene solution under a nitrogen atmosphere and at 1100, the direction of thermal decomposition is different for alkyl hydroperoxides of different structures. The primary alkyl hydroperoxides under these conditions decomposes primarily into hydrogen and acid with the same number of atoms. The hydrogen skeleton of the secondary pentanehydroperoxide-2 partly breaks down with the formation of methane and butyric acid. The tertiary hydroperoxide decomposes by a complex radical chain reaction. The composition of the gaseous phase and

Card 1/2

L 13338-63

ACCESSION NR: AP3002775

the nature of the solvent show a large effect on the direction and to some extent, on the rate of the alkyl hydroperoxide decomposition. The gaseous oxygen is vigorously absorbed by the solvents of the decomposing isomeric alkyl hydroperoxides and even takes part in their decomposition in an inert solvent such as chlorobenzene. In the treatment of autooxidation mechanism of petroleum and of paraffinic hydrocarbons especially, one must consider not only the effect of the decomposition in the liquid but also in the gaseous media. In addition to this the possibility of direct formation of acids during the decomposition of alkyl hydroperoxides must also be considered. Orig. art.

ASSOCIATION: Vsesoyuzny*y teplotekhnicheskiy nauchno-issledovatel'skiy institut im. F. E. Dzerzvinskogo (All-Union Scientific Research Institute of Heat

SUBMITTED: 03Dec62

DATE ACQ: 23Jul63

ENCL: 00

SUE CODE: 00

NO REF SOV: 004

OTHER: 010

Card 2/2

PRYANISHNIKOV, Boris Yefimovich; SAVINOVA, Ye.I., red.; TSYURKO, M.I., tekhn. red.

[Orenburg method of sheepshearing] Orenburgskii metod strizhki ovets. Orenburg, Orenburgskoe knizhnoe izd-vo, 1960. 38 p.

(MIRA 14:10)

(Sheepshearing)

MALYGIN, Viktor Makarovich; KLIPINITSER, M.S., red.; SAVINOVA, Ye.I., red.; DEMENKOVA, L.I., tekhn. red.

[Heroic work on virgin lands; chronicles of the bringing of the virgin lands of Orenburg Province under cultivation] Podvig na tseline; letopis' osvoeniia tselinnykh zemel' Orenburgskoi oblasti. Orenburg, Orenburgskoe knizhnoe izd-vo, 1961. 271 p.

(MIRA 15:1)

(Orenburg Province--Agriculture)

CIA-RDP86-00513R001447410004-6 "APPROVED FOR RELEASE: 03/14/2001

7-58-3-7/15

AUTHORS:

Nesterenko, G. V., Studenikova, Z. V., Savinova, Ye. N.

TITLE:

Rare and Trace Elements in Skarns of Tyrny-Auz (Redkiye i

rasseyannyye elementy v skarnakh Tyrny-Auza)

PERIODICAL:

Geokhiniya, 1958, Nr 3, pp. 228 - 234 (USSR)

ABSTRACT:

In this paper the distribution and the behaviour of the following elements are investigated during the formation process of the skarn deposits: tin, germanium, gallium, cobalt, nickel, chronium, vanadium, titanium, zirconium, strontium, barium, and beryllium. The main elements of this deposit, tungsten and nolybdenum, are not described. The analysis was carried out in the spectral laboratory of the Institute of Geochemistry and Analytical Chemistry, In this paper the skarn formation is discussed first; then the behaviour of single elements is discussed. The results of the analysis are given in tables inserted in the text. The authors draw the following final conclusions from their paper: i)Germanium and tin are introduced by means of solutions in the course of the skarn

Card 1/2

Rare and Trace Elements in Skarns of Tyrny Auz

7-58-3-7/15

formation, 2) Gallium, cobalt, nickel, chronium, vanadium, titanium, zirconium, strontium, barium, and beryllium come into the skarns from the biotite hernfels; in the course of the skarn formation of the latter the mentioned elements migrate to a different extent, i.e. chronium, vanadium, titanium, zirconium, strontium, and barium to the greatest extent. nickel to a smaller extent, gallium, cobalt, and beryllium to a hardly determinable extent. 3) The rare and disperse elements do not form own minerals and enter into the crystal lattice of silicates as isomorphous admixtures; only titanium and zirconium occur partly as sphene and zirconium. There are 10 tables and 7 references, 3 of which are Soviet.

ASSOCIATION:

Institut geokhinii i analiticheskoy khinii in. V.I. Vernadskogo, AN SSSR, Moskva (Moscow, Institute of Geochemistry and Analytical Chemistry ineni V.I. Vernadskiy AS USSR)

SUBMITTED:

March 5, 1958

1. Rare earth dements USSR 2, Rare sarth elements Properties

Card 2/2

30V/7-58-4-5/13

AUTHORS: Borovik

Borovik-Romanova, T. F., Sosedko, A. F. (Deceased),

Savinova, Ye. N.

TITLE:

On the Ratio Between the Lotassium- and Rubidium Content in Minerals From Pegmatitic Veins of the Kola Peninsula According to the Data of Spectral Analysis (Gb otnoshenii soderzhaniy kaliya k rubidiyu v mineralakh iz pegmatitovykh zhil Kol'skogo poluostrova po dannym spektral'nogo analiza)

PERIODICAL:

Geokhimiya, 1958, Nr 4, pp. 334 - 341 (USSR)

ABSTRACT:

A total of 53 samples was investigated by means of the spectrograph ISP -51; the lines 7800,23; 7947,60 Å were used for the determination of rubidium, the lines 7664,91; 7698,98Å and 6911,30; 6938,98 Å for the determination of potassium. Accuracy in the case of rubidium amounts to +8 %, in that of potassium to +9,4 %, +7,4 % respectively. The results are given in a table. The following fields were investigated:

A) Pegmatite field in the southern part of the Kola pen-

insula.

Card 1/4

1) Northwestern part of the field (microclines)

Cn the Ratio Between the Potassium- and Hubidium Content in Minerals From Fegmatitic Veins of the Kola Peninsula According to the Data of Spectral Analysis

"Zhila na bolote", (microclines)

- II) Central part of the pegmatite field (microclines)
- III) Southern- and southeastern part of the field pegmatite Southern veins (microclines)

 Vein in the southeastern part of the field (microclines)
- B) Pegmatitie field, 30 km southeast of the investigated field (microclines)
- C) Microclines from other regions of the Kola peninsula
- D) Pegmatite fields of the Ural and the Vostochnoye Zabaykal'e (amazonites), mica of the Kola peninsula (lepidolite, muscovite).

Results obtained by the investigation of the microclines:

1) The potassium content amounts to between 7,84 % and 13,74%, the rubidium content is between 0,1 % and 1,5 %.

2) The K/Rb-ratio is between 106 (north and northwest) and 7,0 (southestern field). If the results are plotted on a diagram with % Rb as the abscisse and K/Rb as the ordinate, four groups can be distinguished. The latter are

Card 2/4

On the Ratio Between the Potassium- and Rubidium Content in Minerals From Pegmatitic Veins of the Kola Peninsula According to the Data of Spectral Analysis

discussed.

3) In the zonary pegmatitic veins of the south- and southeastern part the K/Rb-ratio is reduced from the contact to the center from 26 to 15.

In the investigation of the K/Rb-ratio in mica it was found that rubidium increases like in the case of microclines, as compared to potassium, from the northwest to the southeast of the field and in the zonary veins from the contact to the center. There are 4 figures, 1 table, and 11 references, 4 of which are Soviet.

ASSOCIATION:

Institut geokhimii i analiticheskoy khimii; im. V. I. Vernadskogo AN SSSR i Kol'skiy filial AN SSSR (Institute of Geochemistry and Analytical I Chemistry imeni V. I. Vernadskiy AS USSR and Kola Branch AS USSR)

SUBMITTED:

April 10, 1958

Card 3/4

 $$50\mbox{V7-58-4-5/13}$$ On the Ratio Between the Potassium- and Rubidium Content in Minerals From Pegmatitic Veins of the Kola Peninsula According to the Data of Spectral Analysis

- 1. Minerals--Analysis 2. Potassium--Determination 3. Rubidium--Determination
- 4. Spectrographic analysis -- Applications

Card 4/4

Getling, R.V., Savinova, Ye H. AUTHORS: SOV/7-58-4-9/15

TITLE: Some Data on the Boron Content of Igneous Rocks in the Tur!

> inskoye Ore Field, Ural Mountains (Nekotoryye dannyye o soderzhanii bora v izverznennykh porodakh Turinskogo

rudnogo polya na Urale)

PERIODICAL: Geokhimiya, 1958, Nr 4, pp. 5/4 - 5/9 (USSR)

ABSTRACT: 25 samples of various rocks were investigated in order to determine their boron content (quartz spectrograph ISP-22):

Intrusive rocks and preskarnian vein rocks (circa 0,005%) Effusive rocks (circa 0,006%)

Postskarnian vein rocks (lamprophyres) (circa 0,002%)

In these rocks no boron minerals occur, ine boron is

contained mainly in plagioclase, as is shown by the investiga-

tion of the monomineral fractions (results in Table 2). This disproves the statement of Sahama (Ref 14) that boron is concentrated mainly in dark minerals. The authors plotted a great number of boron analyses on a diagram, in order to find a dependence of the boron content on the composition of the rock. It was found that the increased boron contents

Card 1/2 are due to a magma even richer in boron. The rocks of

Some Data on the Boron Content of Igneous Hocks in the 30V/7-58-4-9/15 Tur'inskoye Ore Field, Ural Mountains

Tur'inskoye on the average show a threefold mean boron content. To this corresponds also the occurrence of datolite-mineralization in the Vadimo-Aleksandrovskoye deposit in the Tur'inskoye ore field. There are 1 figure, 2 tables, and 12 references, 7 or which are Soviet.

ASSOCIATION:

Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo AN SSSR, Moskva (Moscow Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy AS USSR)

SUBMITTED:

March 28, 1958

1. Rock--Analysis 2. Boron--Determination

Card 2/2

CIA-RDP86-00513R001447410004-6 "APPROVED FOR RELEASE: 03/14/2001

3(8), 3(0)

507/7-59-1-5/14

AUTHORS:

Getling, R. V., Savinova, Ye. N.

TIPLE:

On the Boron Distribution in Rocks and Skarn Minerals of the Vadimo-Aleksandrovskoye Datolite Deposit (Turinskoye Ore Field, Horthern Ural) (O raspredelenii bora v porodakh i skarnovykh mineralakh Vadimo-Aleksandrovskogo datolitovogo mestorozhdeniya

(Tur'inskoye rudnoye pole, Severnyy Ural),

PERIODICAL: Geokhimiya, 1959, Nr 1, pp 38-45 (USSR)

ABSTRACT:

The deposit belongs to the Eastern part of the Tar'ya geosyncline and consists of effusive- and metamorphous sedimentary rocks of the middle Devon. Variscan intrusions of gabbro, gabbrodiorites, and quartz diorites as well as veins of dioriteporphyrites and lamprophyres pierce through the Devon rocks. Various types of skarns are spread throughout the deposit. Their boron content was determined by means of a spectrum analysis (Ref 2). The boron content of igneous rocks which was investigated in a previous study is 0.002 - 0.003% (Ref 2). The following averages were found: sedimentary-metamorphous complex 0.004% (Table 1), rocks continuous to the skarn 0.008% (Table 2). Garnet skarns almost entirely free from boron (Table 3), garnet-wollastonite and wollastonite

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SOV/7-59-1-5/14 On the Boron Distribution in Rocks and Skarn Minerals of the Vadino-Aleksandrovskoye Datolite Deposit (Turinskoye Ore Field, Northern Ural)

> skarns: wollastonite with 0.009% (Table 4), garnets with 0.04% (Table 5), epidote-skarns 0.002% boron. Summarizingly there is to be said: boron is concentrated in hornfels, in garnet from garnet-wollastonite skarns, in epidote, in the rocks contiguous to the skarn, and in igneous rocks. The boron content of hornfels is possible due to the sponges which concentrated boron obtained from the sea-water. In the processes resulting from contact with the contiguous rocks boron is not removed from the igneous rocks. The boron content of wollastonites is caused by mechanical datolite admixtures as was shown by the x-ray analysis carried out by K. V. Fedotova. Garnets from garnet skarns are usually free from boron while boron was supplied during the transformation into epidote. The absence of boron minerals from the skarns shows that boron acted as a completely mobile component and had a low chemical potential. Datolite was formed by the reaction with silicate material in limestone. Boron-free garnets in skarn deposits do not constitute a criterion for the presence of datolite; an increased boron content, however, is highly indicative of

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On the Boron Distribution in Rocks and Skarn Minerals of the Vadimo-Aleksandrovskoye Datolite Deposit (Mr in the Ore Field, Northern Ural)

a datolite mineralization. The authors thank V. V. Shcherbina and V. L. Parsukov for their valuable advice and suggestions. A. A. Yaroshevskiy determined the light refraction and specific weight of garnets. There are 6 tables, and 14 references, 3 of which are Soviet.

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo

AM SSSR, Moskva

(Institute of Geochemistry and Analytical Chemistry imeni

V. I. Vernadskiy AS USSR, Moscow)

SUBMITTED: August 27, 1958

Card 3/3

3(5), 5(2) AUTHORS: Volkov, V. P., Savinova, Ye. N.

SOV/7-59-6-6/17

TITLE:

On the Rubidium Distribution and the K/Rb-Ratio in the Rocks

of the Lovozerskiy Alkali Massif

PERIODICAL:

Geokhimiya, 1959, Nr 6, pp 524 - 529 (USSR)

ABSTRACT:

The rocks of the four intrusion phases were investigated by spectrum analysis. The spectrograph ISP-51 and plates of the infrachromium-840 type were used. The amounts of g/t increase from 140 in the first phase to 230 g/t Rb in the third phase as may be seen from the results (Table 2). The youngest rocks of the massif contain, however, little rubidium, the poecilitic nepheline syenites and tavites 145 g/t, the monchiquites of the fourth phase 80 g/t Rb. The average amount of the second intrusion phase was found to be 205 g/t on the basis of a discussion with A. I. Polyakov and Yu. A. Balashova on the parts by volume of the individual rocks. Calculated for the entire massif the average is 210 g/t. The K-values of the published analyses were used for the purpose of calculating the K/Rbratio (Refs 1,2, and 7). The values for the first, second, and third phase thus determined are 280, 200, and 170 (Table 3). For the entire massif the K/Rb-ratio amounts to 195. Potassium

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On the Rubidium Distribution and the K/Rb-Ratio in the Rocks of the Lovozerskiy Alkali Massif

SOV/7-59-6-6/17

was volumetrically determined in monchiquites, according to a method of Yu. P. Trusov and O. F. Mironova, Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo AN SSSR (Institute of Geochemistry and Analytical Chemistry meni V.I. Vernadskiy: AS USSR). Papers by A. M. Demin, D. N. Khitarov, V. I. Gerasimovskiy, V. I. Lebedev, M. D. Dorfman, and N. A. Yeliseyev are mentioned. There are 3 tables and 11 references, 8 of which are Soviet.

ASSOCIATION:

Institut geokhimii i analiticheskoy khimii im. V. I. Vernads-kogo AN SSSR, Moskva (Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy of the AS USSR)

SUBMITTED:

April 8, 1959

Card 2/2

WOLKOV, V.P.; SAVINOVA, Ye.N.

Relationship between potassium and rubidium in the evolution process of lime-alkaline and alkaline igneous magmas. Geokhimiia no.12:1099-1107 '61. (MIRA 15:3)

1. Vernadskiy Institute of Geochemistry and Analytical Chemistry, Academy of Sciences U.S.S.R., Moscow.
(Lovozero Tundras—Potassium) (Lovozero Tundras—Rubidium)

s/075/61/016/005/001/010 B101/B110

5.5310

Vaynshteyn, E. Ye., Korolev, V. V., and Savinova, Ye. N.

AUTHORS:

Conditions for the spectrum excitation of elements in a

TITLE:

plasma generator, and its use for spectrum analysis Zhurnal analiticheskoy khimii, v. 16, no. 5, 1961, 532 - 537

TEXT: The inhomogeneous distribution of alloying additions and of impurities in titanium alloys rules out their analysis in spark or arc PERIODICAL: spectra. The authors therefore suggest the plasma generator as a new excitation source for the spectrum analysis of solutions. The present paper reports on systematic studies on the influence of different conditions upon the blackening of lines of various elements, as well as on the method of analyzing titanium alloys. Results: (1) The excitation energy of spectrum lines affects the shape and position of blackening maxima. If the energy is reduced, the maxima become broader and their distance from the origin of the jet increases. (2) Anions do not affect the blackening degrees. (3) The difference, Δ \$, between the blackening degrees. of the two iron lines Fe II 2598.4 and Fe I 2719.02 decreases linearly along

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Conditions for the spectrum excitation ...

the jet. Addition of 50% alcohol does not alter this ratio but decreases the temperature, broadens the maxima, and shifts them toward the origin of the jet. The analytical method devised can be used to determine Al, Cr, Mo, Fe, Si, V, Mn, and Sn in Ti alloys. In the present paper, however, only the determination of Al, Cr, Mo, V, and Mn is described. The standard solutions were obtained by mixing the calculated quantities of solutions of the chlorides of the elements to be determined with the TiCl solution. Cobalt salt (10 mg/ml of Co) was used as the reference element. 5 ml of its solution was added to 50 ml of the test solution. 0.5 g of the alloy to be analyzed was dissolved in 20 ml pure HCl. TiCl, was oxidized by dropwise addition of concentrated HNO, and 5 ml of Co salt solution was added. The spectrum analysis was carried out with a plasma generator described by V. V. Korolev, E. Ye. Vaynshteyn in Zh. analit. khimii, 15, 686 (1960), whose nozzle had a diameter of 6.5 mm. About 6.5 liter/min of cooling gas (argon) was spent, the gas pressure at the input of the atomizer was 2.5 at, the consumption of solution was 6 - 8 milliliter/min, and the electrode spacing was 3 mm. The plasma generator was operated with 20 a and 270-v d-c. A distance of 22 mm from the origin Card 2/3

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of the jet was found to be an optimum for the spectroscopic record. The lines of all elements could be taken with the same slit adjustment of an MCM-22 (ISP-22) spectrograph. The spectra were taken on type-II spectroscopic plates with a sensitivity of 16 FOCT (GOST) units, and developed in a Λ_{-19} (D-19) developer. The preexposure was 20 sec and that of the principal exposure 75 sec. The spectrograms of standards and alloys were photometrically determined with an Mf-2 (MF-2) microphotometer. The calibration curves $\Delta S = f(\log c)$ (c = concentration) were linear. The mean arithmetic error was 3-4 %. K. A. Sukhenko is thanked for providing the alloys. There are 8 figures, 2 tables, and 9 references: 3 Soviet and 6 non-Soviet. The most recent reference to the English-language publication reads as follows: Margoshes, M., Scribner, B. F., Spectrochimica Acta, 2, 138 (1959).

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V. I.

Vernadskogo AN SSSR, Moskva (Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy, AS USSR, Moscow)

SUBMITTED:

November 30, 1960

Card 3/3

BOROVIK-RCMANOVA, T.F.; HELYAYEV, Yu.I.; KUTSENKO, Yu.I.; PAVLENKO, L.I.; SAVINOVA, Ye.N.; FARAFONOV, M.M.; VAYNSHTEYN, E.Ye., prof., doktor khim. nauk, otv. red.; DRAGUNOV, E.S., red. izd-va; ASTAF'YEVA, G.A., tekhn. red.

[Spectral determination of rare and dispersed elements in minerals rocks, soils, plants, and natural waters] Spektral'noe opredelenie redkikh i rasseiannykh elementov; v mineralakh i porodakh, pochvakh, rasteniiakh i prirodnykh vodakh. [By] T.F. Borovik-Romanova i dr. Moskva, Izd-vo Akad. nauk SSSR, 1962. 239 p. (MIRA 15:3)

1. Akademiya nauk SSSR. Institut geokhimii. (Spectrum analysis)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001447410004-6

8/058/62/000/012/023/048 A160/A101

AUTHORS:

Vaynshteyn, E. Ye., Korolev, V. V., Savinova, Ye. N.

TITLE:

The use of a plasma generator for the spectral analysis of

titanium-base alloys

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 12, 1962, 31, abstract 12G311

("Chem. analit." (Polska), no. 1, 1962, x7, 187 - 194; summary in

Polish)

The expediency is shown of using a plasma generator as a spectrum--excitation source during a quantitative analysis of alloying admixtures (Al, Cr, Mo, V, Mn, Fe, Si, Sn, etc.) in titanium alloys. A method was developed for determining the first five of these elements whose contents in the various alloys within 0.1 - 10%. Presented are parts of the design, outside view, and the parameters of the plasma generator which are best for carrying out the analysis. The alloys, subject to the analysis, were preliminarily converted to solution, or the standard solutions were converted to aerosol by an atomizer and introduced, together with the cooling gas, in the interior cavity of the generator,

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"APPROVED FOR RELEASE: 03/14/2001

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The use of a plasma generator for...

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and later on - in the jet of the plasma. The mean arithmetic error of the reproducibility of the spectral determination is 3 - 4%; A satisfactory conformity tained.

F. Ortenberg

[Abstracter's note: Complete translation]

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VAINSHTEIN, J.E.; KOROLEV, V.V.; SAVINOVA, YE.N.

Application of the plasma generator in spectral analysis of titanium alloys. Chemia anal 7 no.1:187-194 '62.

Chemistry Academy of Science of the U.S.S.R., Moscow.

SAVINOVA, YELV.

AUTHORS: Tovbin, M.V. and Savinova, Ye.V.

73-2-2/22

TITLE

The spontaneous adsorption process. 2: The dependence of the surface tension on the radius of surface curvature. (K Voprosu o protsesse samoadsorbtsii. 2: Zavisimost poverkhnostnogo natyazheniya ot radiusa krivizny

poverkhnosti).

PERIODICAL: "Ukrainskiy Khimicheskiy Zhurnal" (Ukrainian Journal of Chemistry), Vol.23, No.2, March-April, 1957, pp.146-151, (USSR).

ABSTRACT: The author aimed to define the magnitude of the spontaneous adsorption of water by more contemporary methods than Van der Waals employed. The principles of the applied method are the same as used by M.V.Tovbin and E.V.Savinova (Ref.3: Tovbin, M.V. and Savinova, E.V. Zhurnal Fiz'.Khimii (in print)), based on the evaporation of water which is flowing out of thin tubes. Data obtained during the investigation of the non-stationary (kinetic) evaporation showed that the water-air boundary layer contains a self-adsorption layer with gradually decreasing density. When 1 cm² of self-adsorption layer is formed, 3'.3 x 10-9 mole water disappears at 25 C. The thickness of the self-card 1/3 adsorbing layer was found to be about 1'.2 x 10-7 cm. The

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calculated results were in good agreement with previously

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The spontaneous adsorption process. 2: The dependence of the surface tension on the radius of surface curvature. (Cont.)

obtained results by different methods. The surface tension was shown to depend on the radius of the surface curvature as indicated in Table 3. The dependence of the surface tension of water on the radius of surface curvature was calculated.

$$\Re = \frac{2V [O_0 + \alpha(P_0 - P)]}{RT \ln \frac{P_0}{P}}$$

r = radius of surface curvature;
V = molecular volume of the liquid;

o = value of surface tension for flat surfaces;
a = constant;
Po and P = the corresponding values of pressure of the saturated vapour;

Cari 2/3 saturated vapour; R = gas constant; T = absolute temperature.

The spontaneous adsorption process. 2: The dependence of the surface tension on the radius of surface curvature. (Cont.)

There are 3 diagrams, 1 table and 10 references, 6 of which are Slavic.

ASSOCIATION: Kiev State University, Chair of Physical and Colloidal Chemistry (Kievskiy Gosudarstvennyy Universitet, Kafedra Fizicheskoy i Kolloidnoy Khimii).

SUBMITTED: September 17, 1956. AVAILABLE: Library of Congress Card 3/3

AUTHOR:

PERMITA JANG

Tovbin, M.V., Savinova, Ye.V.

76-11-10/35

TITLE:

The Kinetics of the Non-Steady Processes on the Interface Between Gas and a Liquid (Kinetika nestatsionarnykh protsessov na granitse razdela zhidkost' - gaz) I. The Kinetics of the Non-Steady Process

of Water Evaporation (I. Kinetika nestatsionarmogo protsessa

ispareniya vody)

PERIODICAL:

Zhurnal Fizicheskoy Khimii, 1957, Vol. 31, Nr 11, pp 2445-2452

(USSR)

ABSTRACT:

A method for measuring the velocity of water evaporation of the surface of a moving jet was worked out. This method makes it possible to investigate the kinetics of a non-steady process in the case of the very short contact between water and gas. The regularities in the kinetics of a non-steady process of water evaporation were investigated. It is shown that with an increase of the duration of the contact of these phases evaporation velocity at first increases, after which it attains a maximum, and, finally, begins to decrease by gradually approaching the constant value which is characteristic of a process under steady conditions. The dependence of the velocity of gas of a non-steady process of water evaporation on temperature was investigated, and it is shown that, with a decrease of the

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76-11-10/35

The Kinetics of the Non-Steady Processes on the Interface Between Gas and a Liquid. I. The Kinetics of the Non-Steady Process of Water Evaporation.

duration of phase contact, the temperature coefficient of evaporation rises, the apparent process-activation energy becomes greater and attains a value which is near that of the bound heat-amount in water evaporation. With respect to the process of evaporation it is presumed that upon the newly formed surface of the liquid a self-adsorbing transition layer is first formed. The further course taken by this process consists in the desorption of the substance from the self-adsorbing layer. On the strength of experimental data it is shown that, for the forming of a self-adsorbing layer at 25°C - 3.3.10-9 g-mol/cm² water is necessary. There are 11 figures, 1 table, and 4 Slavic references.

ASSOCIATION: Kiyev State University imeni T.G. Shevchenko (Kiyevskiy gosudarst-

vennyy universitet im. T.G. Shevchenko)

SUBMITTED: June 30, 1956

AVAILABLE: Library of Congress

Card 2/2

SAVINOVA, VEV.

AUTHORS:

Tovbin, M.V., Savinova, Ye.V.

76-12-17/27

TITLE:

Kinetics of Non-Steady Processes at the Liquid-Gas-Interface (Kinetika nestatsionarnykh protsessov na granitse razdela zhidkost'-(gaz) II. The Influence of the Adsorption Layers on the Velocity of the Non-Steady Process of Evaporation of Water (II. Vliyaniye adsorbtsionnykh sloyev na skorost' nestatsionarnogo protsessa

ispareniya vody).

PERIODICAL:

Zhurnal Fizicheskoy Khimii, 1957, Vol. 31, Nr 12, pp.2717-2719 (USSR)

ABSTRACT:

Reference is made to the determination in a series of investigations that the adsorption-layers are able to reduce the velocity of vaporization of the volatile components of mixture. Since it is assumed that the adsorption-layers exercise a particularly great influence on the velocity of vaporization under non-steady conditions where the rôle of diffusion in the kinetics of the process is reduced to a minimum - the present elaborate investigation was carried out for reexamining this assumption. It is shown that under non-steady conditions the adsorption layers influence in various ways the velocity of water-vaporization in dependence on the amount of phase-contact-duration. In the case of a very small period of phase contact

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Kinetics of Non-Steady Processes at the Liquid-Gas-Interface. II. The Influence of the Adsorption Layers on the Velocity of the Non-Steady Process of Evaporation of Water 76-12-17/27

adscrption film is essentially greater than the velocity of vaporization of pure water. Prolongating the duration of phase contact, the film begins to decelerate the vaporization of the water in which case the retardation of the process caused by the film begins to reduce gradually with the approximation to steady conditions (viz. with the rise of T). An explanation is given here for the somewhat unexpected character of the influence of the adsorption-layers on the kinetics of the non-steady process of water-vaporization. In the previous paper [Ref.13] the assumption was expressed that an intense reduction of the velocity of water-vaporization, which is observed at 7 < 0.003 sec., is correlated with the formation of a self-adsorbing interphase-layer. With such insignificant phase-contact periods, the molecules of the vaporizing water are used for filling the interphase-layer, and do not reach the gas-flow flowing around the liquid. In the case of the presence of surface active substances the amount of water required for filling the interphase layer reduces intensely (at the expense of the displacement of the water by the surface active substance). Therefore, the formation of the interphase-layer does almost not at all influence the observed velocity

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Kinetics of Non-Steady Processes at the Liquid-Ges-Interface. II. The Influence of the Adsorption Layers on the Velocity of the Non-Steady Process of Evaporation of Water

of water vaporization. This is apparently also the cause for the intense reduction of the observed velocity of raporization caused at T < 0.003 sec. by the adsorption-films. The following must still be taken into account for explaining the influence of the adsorption-layer: the presence of surface active substances leads to the reduction of the surface-tension at the interface of solution-water which, under non-steady conditions, can lead to an increase of the velocity of water vaporization. Passifes, it must be considered that the formation of the adsorption layer requires a certain time. During the formation of the layer, the decelerating effect of the layer may increase with the prolongation of the duration of phase-contact. There are 2 figures, and 13 references, 8 of which are Slavic.

ASSOCIATION:

Kiyev State University (Kiyevskiy gosudars vennyy universitet).

SUBMITTED:

September 20, 1956

AVAILABLE:

Library of Congress

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